In re Application of: Irit SAGI et al

Serial No.: 10/551,715 Filed: July 20, 2006

Office Action Mailing Date: March 18, 2008

Examiner: Mohammad Y. Meah

Group Art Unit: 1652 Attorney Docket: 29993

WHAT IS CLAIMED IS:

1-6. (Cancelled)

7. (Currently Amended) A method of producing a—metalloprotein inhibitorn antibody which inhibits an activity of gelatinase B, the method comprising:

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- (a) generating antibodies directed atusing a composition comprising including a metal ion-bound chelator, wherein said composition is selected having structural and electronic properties similar to a functional domain of the metalloproteingelatinase B; and
- (b) testing an inhibitory effect of said antibodies on the <u>metalloprotein gelatinase</u>

 <u>B</u>, thereby producing the <u>antibody which inhibits an activity of gelatinase</u>

 <u>Bmetalloprotein inhibitor.</u>
- 8. (Original) The method of claim 7, wherein said antibodies are polyclonal antibodies.
- 9. (Original) The method of claim 7, wherein said antibodies are monoclonal antibodies.
- 10. (Currently Amended) The method of claim 7, wherein said metal ion is a transition metal ion selected from the group consisting of Vanadium, Selenium, Molybdenum, Cobalt, Zinc, Copper, Iron, Gallium, Bismuth, Aluminum, Gold, Platinum, Manganese, Chronium, Silver, Antimony, Thalium, Cadmium, Niekel, Mercury and Lead.
- 11. (Original) The method of claim 7, wherein said chelator is a polyamine.
- 12. (Original) The method of claim 11, wherein said polyamine is at least two histidine molecules.

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13. (Currently Amended) The method of claim 11, wherein said polyamine is selected from the group consisting of ethylene diamine, cyclam, porphyrin, diethylenetriamine, triethylenetetramine, triethylenediamine, tetraethylenepentamine, aminoethylethanolamine, aminoethylethanolamine, aminoethylpiperazine, pentaethylenehexamine, captopril, penicilamine, N,N'-bis(3-aminopropyl)-1,3-propanediamine, N,N'-Bis (2-animoethyl)-1,3-propanediamine, 1,7-dioxa-4,10-diazacyclododecane, 1,4,8,11-tetraaza cyclotetradecane-5,7-dione, 1,4,7-triazacyclononane, 1-oxa-4,7,10-tetraazacyclododecane, 1,4,8,12-tetraazacyclopentadecane, and 1,4,7,10-tetraazacyclododecane.

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14. (Currently Amended) The method of claim 7, wherein said composition is selected from the group consisting of tetra-carboxy phenyl porphyrin Co(II)a tetra-carboxy phenyl porphyrin Zn(II), metal-bound-aliphatic amino group containing compound, metal-bound-alicyclic amino group containing compound and metal-bound peptides.

15-57. (Cancelled).